



Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice.

Important Warranty Information Regarding Television Format Viewing

See the warranty card for more information on warranty terms. Wide screen format LED Displays (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fit the screen if your model offers this feature and the images are constantly moving. Displaying stationary graphics and images on screen, such as the dark sidebars on non-expanded standard format television video and programming, should be limited to no more than 5% of the total television viewing per week. Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. Displaying stationary images that exceed the above guidelines can cause uneven aging of LED Displays that leave subtle, but permanent burned-in ghost images in the LED picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars. On LED models that offer picture sizing features, use these controls to view different formats as a full screen picture. Be careful in the selection and duration of television formats you use for viewing. Uneven LED aging as a result of format selection and use, as well as burned-in images, are not covered by your Samsung limited warranty.

Securing the Installation Space

Keep the required distances between the product and other objects (e.g. walls) to ensure proper ventilation. Failing to do so may result in fire or a problem with the product due to an increase in the internal temperature of the product.

When using a stand or wall-mount, use parts provided by Samsung Electronics only.

If you use parts provided by another manufacturer, it may result in a problem with the product or an injury due to the product falling.

The appearance may differ depending on the product.

Be careful when you contact the TV because some parts can be somewhat hot.

Still image warning

Avoid displaying still images (such as jpeg picture files) or still image elements (such as TV channel logos, panorama or 4:3 image format, stock or news bars at screen bottom etc) on the screen. Constant displaying of still pictures can cause ghosting of LED screen, which will affect image quality. To reduce risk of this effect, please follow below recommendations:

- Avoid displaying the same TV channel for long periods.
- Always try to display any image on full screen, use TV set picture format menu for best possible match.
- Reduce brightness and contrast values to minimum required to achieve desired picture quality, exceeded values may speed up the burnout process.
- Frequently use all TV features designed to reduce image retention and screen burnout, refer to proper user manual section for details.

Installing the TV

The above described warranty repairs must be performed by a SAMSUNG Authorized Service Center. Along with this Statement, the Original Limited Warranty Statement and a dated Bill of Sale as Proof of Purchase must be presented to the Service Center. Transportation to and from the Service Center is the responsibility of the purchaser. Conditions covered are limited only to manufacturing defects in material or workmanship, and only those encountered in normal use of the product. Excluded, but not limited to, are any originally specified provisions for in-home or on-site services, minimum or maximum repair times, exchanges or replacements, accessories, options, upgrades, or consumables.

Contact SAMSUNG WORLDWIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

For the location of a SAMSUNG Authorized Service Center, please call toll-free: - In the United States : 1-800-SAMSUNG (1-800-726-7964)

- In Canada : 1-800-SAMSUNG

Country	CANADA	U.S.A.
Address	Samsung Electronics Canada Inc., Customer Service 55 Standish Court Mississauga Ontario L5R 4B2 Canada	Samsung Electronics America, Inc. 85 Challenger Road Ridgeland Park, NJ 07860
Customer Care Center	1-800-SAMSUNG (726-7964)	
Web Site	www.samsung.com/ca (English) www.samsung.com/ca/fr (French)	www.samsung.com

Getting Started

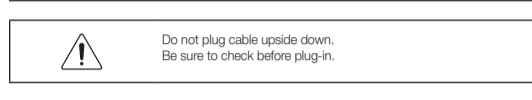
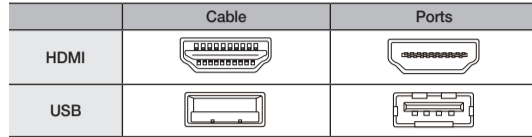
Accessories

- Remote Controller (AA59-00666A) & Batteries (AAA x 2)
- Warranty Card / Safety Guide
- Owner's Instructions
- Power Cord
- Wire Holder Stand (BN61-05491A)

Input Cables (Sold Separately)

- RS232 (AA39-00311A)
- Audio
- HDMI
- HDMI-DVI
- Component
- Composite (AV)
- Crossed (P)

Check the cable before plug-in



TV Controller (Panel Key)



Turns the TV on by pressing the controller in standby mode. Adjusts the volume by moving the controller from side to side when the power is on.

Selects a channel by moving the controller up and down when the power is on.

Presses the controller when the power is on, then the function menu screen appears. If you press it again, the function menu screen disappears.

Selects the MEDIA+P by moving the controller in the function menu screen. The MEDIA+P main screen appears.

Selects the MENU (M) by moving the controller in the function menu screen. The OSD(On-Screen Display) of your TV's feature appears.

Selects the Source List (S) by moving the controller in the function menu screen. The Source List screen appears.

Selects the Power Off (O) to turn the TV off by moving the controller in the function menu screen.

Exits the menu when pressing the controller more than 1 second.

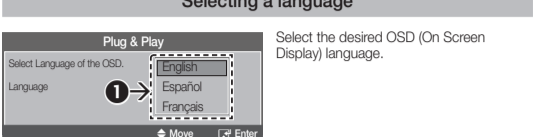
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When selecting the function by moving the controller to the up/down/left/right directions, be sure not to press the controller. If you press it first, you cannot operate it to move the up/down/left/right directions.

Plug & Play (Initial Setup)

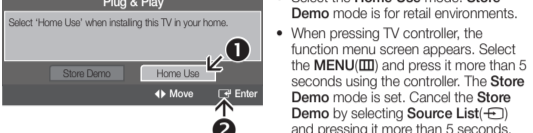
When you turn the TV on for the first time, a sequence of on-screen prompts will assist in configuring basic settings. Press the POWER button. Plug & Play is available only when the input source is set to TV.

Connecting the power cord and antenna. (refer to 'Connections')



Select the desired OSD (On-Screen Display) language.

Selecting a Home Use mode



Select the Home Use mode. Store Demo mode is for retail environments.

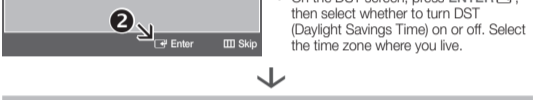
When pressing TV controller, the function menu screen appears. Select the MENU (M) and press it more than 5 seconds using the controller. The Store Demo mode is set. Cancel the Store Demo by selecting Source List (S) and pressing it more than 5 seconds.

Selecting an antenna



In Cable mode, you can select the correct signal source among STD, HRC, and IRC by pressing the ▲, ▼, ◀, ▶ button.

Setting the Clock Mode



Set the Clock Mode automatically or manually.

If you select the Auto, set the DST(Daylight Saving Time).

On the DST screen, press ENTER (P), then select whether to turn DST (Daylight Savings Time) on or off. Select the time zone where you live.

Viewing the HD Connection Guide

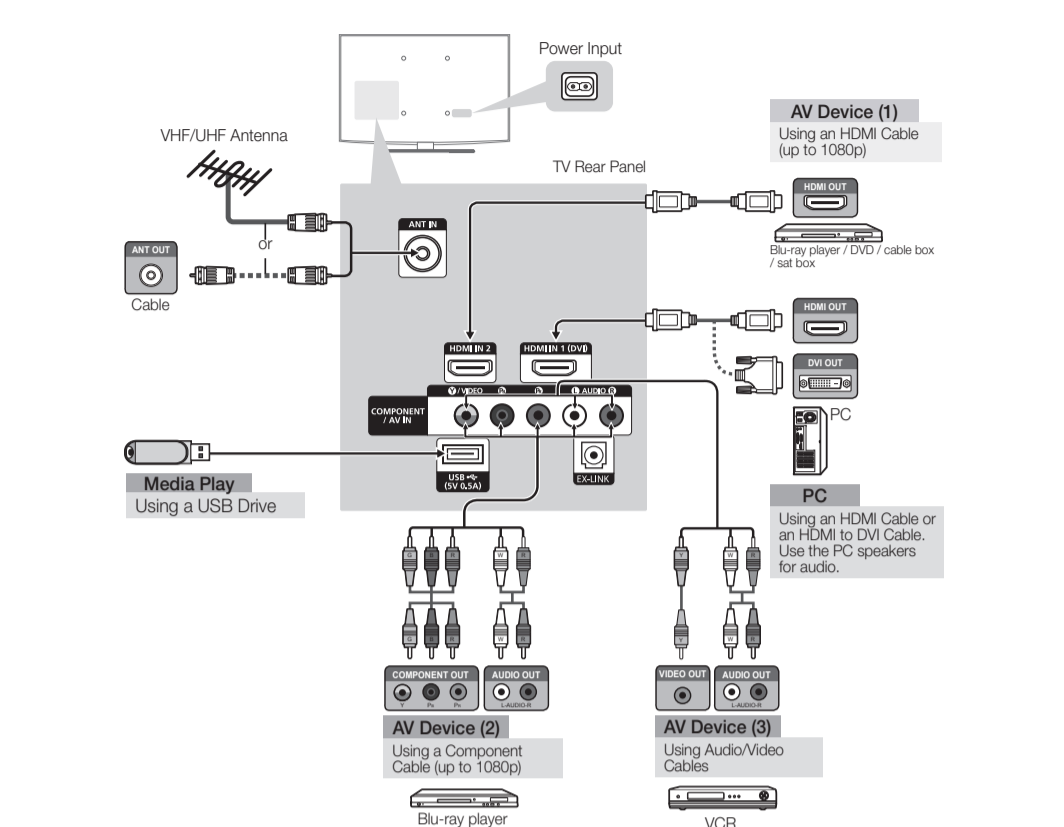
The connection method for the best HD screen quality is displayed.

Enjoy your TV.

Press the ENTER (P) button.

Connections

- For better picture and audio quality, connect to a digital device using an HDMI cable.
- The picture may not display normally (if at all) or the audio may not work if an external device that uses an older version of HDMI mode is connected to the TV. If such a problem occurs, ask the manufacturer of the external device about the HDMI version and, if out of date, request an upgrade.
- Be sure to purchase a certified HDMI cable. Otherwise, the picture may not display or a connection error may occur.
- PC/D-Sub and PC/DVI AUDIO IN input are not supported.
- For HDMI/DVI cable connection, you must use the HDMI IN 1(DVI) port.
- Connecting through the HDMI cable may not be supported depending on the PC.
- If an HDMI to DVI cable is connected to the HDMI IN 1(DVI) port, the audio does not work.
- EX-LINK: Connector for service only.



Changing the Input Source

Source List

Use to select TV or an external input source such as a DVD player / Blu-ray player / cable box / STB satellite receiver.

1. Press the SOURCE button.

2. Select a desired external input source.

You can only choose external devices that are connected to the TV. In the Source List, connected inputs will be highlighted.

How to Use Edit Name

Edit Name lets you associate a device name to an input source. To access Edit Name, press the TOOLS button in Source List. The following selections appear under Edit Name:

VCR / DVD / Cable STB / Satellite STB / PVR STB / AV Receiver / Game / Camcorder / PC / DVI PC / DVI TV / IPTV / Blu-ray / HD DVD / DMA: Name of the device connected to the input jacks to make your input source selection easier.

When connecting a PC to the HDMI IN 1(DVI) port with HDMI cable, you should set the TV to PC mode under Edit Name.

When connecting a PC to the HDMI IN 1(DVI) port with HDMI to DVI cable, you should set the TV to DVI PC mode under Edit Name.

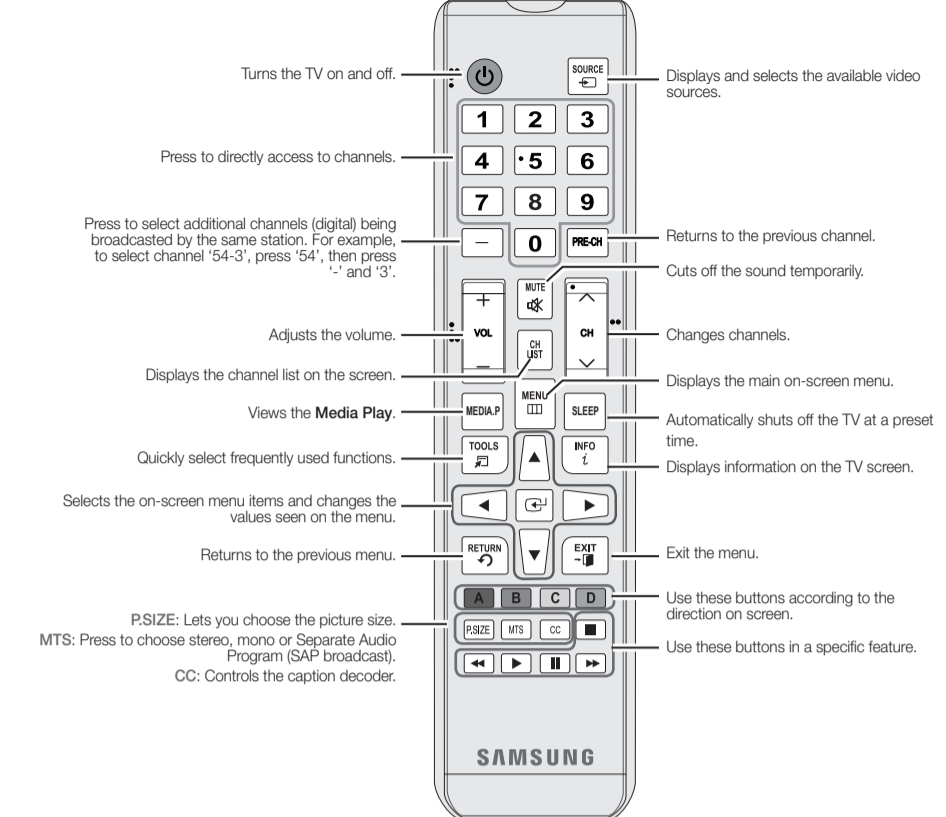
When connecting an AV devices to the HDMI IN 1(DVI) port with HDMI to DVI cable, you should set the TV to DVI mode under Edit Name.

Information

You can see detailed information about the connected external device.

Remote Control

This remote control has Braille points on the Power, Channel, and Volume buttons and can be used by visually impaired persons.

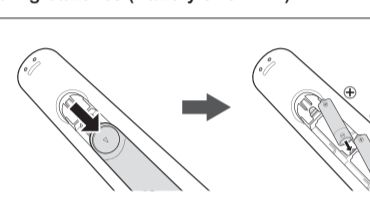


Display Modes (HDMI/DVI Input)

Optimal resolution is 1920 x 1080@60Hz.

Mode	Resolution	Horizontal Frequency (Hz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
BSM	640 x 350	31.469	70.066	25.173	-/+
	720 x 400	31.469	70.067	26.302	-/+
	640 x 480	30.000	60.000	30.240	-/+
	633 x 424	49.726	74.551	57.284	-/+
MAC	1125 x 870	68.681	75.002	102.000	-/+
	640 x 480	31.469	69.949	25.173	-/+
	640 x 480	37.861	72.859	31.500	-/+
	640 x 480	37.861	75.000	31.500	-/+
	800 x 600	37.879	60.317	40.000	+/-
	800 x 600	48.077	72.986	50.000	+/-
	800 x 600	48.079	75.000	49.500	+/-
	1024 x 768	48.363	60.004	65.000	-/+
	1024 x 768	48.478	70.066	68.000	-/+
	1024 x 768	60.009	75.009	78.750	-/+
VESA DMT	1125 x 870	67.500	75.000	102.000	+/-
	1280 x 720	45.000	60.000	74.250	-/+
	1280 x 800	49.200	59.810	83.500	-/+
	1280 x 1024	63.881	60.009	109.000	-/+
	1280 x 1024	79.878	75.009	135.000	+/-
	1366 x 768	47.712	59.740	85.500	-/+
	1440 x 900	56.250	59.887	109.000	-/+
	1600 x 900@60	60.000	60.000	108.000	-/+
	1600 x 1080	67.500	75.000	144.250	-/+
	1920 x 1080	67.500	60.000	148.500	-/+

Installing batteries (Battery size: AAA)



NOTE

- Use the remote control within 23 feet from TV.
- Bright light may affect the performance of the remote control. Avoid use when nearby fluorescent lights or neon signs.
- The Color and shape may vary depending on the model.

Channel Menu

Seeing Channels

Channel List

Add, delete or set Favorite channels and use the program guide for digital broadcasts. Select a channel in the All Channels, Added Channels, Favorite or Programmed screen by pressing the ▲ / ▼ buttons, and pressing the ENTER (P) button. Then you can watch the selected channel.



- All Channels: Shows all currently available channels.
- Added Channels: Shows all added channels.
- Favorites: Shows all favorite channels.
- Programmed: Shows all currently reserved programs.

Using the remote control buttons with the Channel List

- Green (Zoom): Enlarges or shrinks a channel number.
- Yellow (Select): Selects multiple channel lists. Select desired channels and press the Yellow button to set all the selected channels at the same time. The ✓ mark appears to the left of the selected channels.
- Tools (Tools): Displays the check list option menu. (The Options menus may differ depending on the situation.)

Channel Status Display icons

Icons	Operations
✓	A channel selected.
♥	A channel set as a Favorite.
○	A reserved program.
📺	A program currently being broadcast.

Memorizing channels

Antenna (Air / Cable) (TOOLS)

Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e. an Air or a Cable system).

Auto Program

When selecting the Cable TV system: Selects the cable system. STD, HRC and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area. At this point, the signal source has been selected.

After all the available channels are stored, it starts to remove scrambled channels. The Auto program menu then reappears.

Press the ENTER (P) button to stop the channel store during Auto Program.

When selecting the Cable TV system: Selects the cable system. STD, HRC and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area. At this point, the signal source has been selected.

After all the available channels are stored, it starts to remove scrambled channels. The Auto program menu then reappears.

Press the ENTER (P) button to stop the channel store during Auto Program.

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Channel Mode

Change the channel mode directly between Added Channels and Favorite Channels.

The Favorite Channels is enabled only when you set Add to Favorite.

Fine Tune

(analog channels only)

If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, fine tune the channel manually.

Fine tuned channels that have been saved are marked with an asterisk. ** on the right-hand side of the channel number in the channel banner.

To reset the fine-tuning, select Reset.

Picture Menu

Mode (TOOLS)

Select your preferred picture type.

When connecting a PC, you can only select Entertain and Standard.

Dynamic: Suitable for a bright room.

Standard: Suitable for a normal environment.

Movie: Suitable for watching movies in a dark room.

Entertain: Suitable for watching movies and games.

Only available when connecting a PC.

Backlight / Contrast / Brightness / Sharpness / Color / Tint (G/R)

Your television has several setting options for picture quality control.

When connecting a PC, you can only make changes to Backlight, Contrast, Brightness and Sharpness

Advanced Settings

(available in Standard / Movie mode)

Compared to previous models, new Samsung TVs have a more precise picture.

When connecting a PC, you can only make changes to Gamma and White Balance.

Picture Options

When connecting a PC, you can only make changes to the Color Tone, Size and HDMI Black Level.

Color Tone (Cool / Standard / Warm / Warm2)

Warm1 or Warm2 will be deactivated when the picture mode is Dynamic.

Size: Your cable box/satellite receiver may have its own set of screen sizes as well. However, we highly recommend you use 16:9 mode most of the time.

16:9: Sets the picture to 16:9 wide mode.

Zoom1: Use for moderate magnification.

Zoom2: Use for a stronger magnification.

Wide Fit: Enlarges the aspect ratio of the picture to fit the entire screen.

4:3: Sets the picture to basic (4:3) mode.

Do not watch in 4:3 format for a long time. Traces of borders displayed on the left, right and center of the screen may cause image retention (screen burn) which are not covered by the warranty.

Screen Fit (FIT): Displays the full image without any cut-off when HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) signals are inputted.

HD (High Definition): 16:9 - 1080i/1080p (1920x1080), 720p (1280x720)

Settings can be adjusted and stored for each external device you have connected to an input on the TV.

Picture Sizes available by Input Source:

Input Source	Picture Size
ATV, AV, Component (480i, 480p)	16:9, Zoom1, Zoom2, 4:3
DTV(1080i, 1080p), Component (1080i, 1080p), HDMI (720p, 1080i, 1080p)	16:9, Wide Fit, 4:3, Screen Fit

Digital Noise Filter (Off / Low / Medium / High / Auto):

If the broadcast signal received by your TV is weak, you can activate the Digital Noise Filter feature to reduce any static and ghosting that may appear on the screen.

When the signal is weak, try other options until the best picture is displayed.

HDMI Black Level (Normal / Low): Selects the black level on the screen to adjust the screen depth.

Film Mode (Off / Auto): Sets the TV to automatically sense and process film signals from all sources and adjusts the picture for optimum quality.

Available in ATV, DTV, DTV(interface), AV, COMPONENT (480i / 1080i) and HDMI (480i / 1080i).

Auto Motion Plus (Off / Clear / Standard / Smooth / Custom / Demo): Enhances motion in fast moving scenes.

The info screen on your TV displays the resolution and frequency of the incoming video signal (60Hz). This displayed frequency is not what the TV is displaying by using the Auto Motion Plus function.

LED Motion Plus (Off / On): Removes drag from fast scenes with a lot of movement to provide a clear picture.

Picture Reset

Resets your current picture mode to its default settings.

Reset Picture Mode: Returns all picture values in the currently selected mode to the default settings.

Sound Menu

Mode (TOOLS)

Standard: Selects the normal sound mode.

Music: Emphasizes music over voices.

Clear Voice: Provides the best sound for movies.

Music Voice: Emphasizes voices over other sounds.

Eco Solution

- **Energy Saving (Off / Low / Medium / High / Picture Off) :** This adjust the brightness of the TV in order to reduce power consumption. If you select **Picture Off**, the screen is turned off, but the sound remains on. Press any button except volume button to turn on the screen.
- **No Signal Power Off (Off / 15 min. / 30 min. / 60 min.) :** Sets how quickly the TV switches to standby mode, if no picture is being received.

- ☞ Disabled when the PC is in power saving mode.
- **Auto Power Off (Off / On) :** The TV will be automatically turned off when no user operation is received for 4 hours.

Support Menu

Self Diagnosis

- **Picture Test:** Use to check for picture problems. If the problem continues to occur, check the color pattern.
- **Sound Test:** Use the built-in melody sound to check for sound problems.
- **Signal Strength:** (digital channels only) An HD channel's reception quality is either perfect or the channels are unavailable. Adjust your antenna to increase signal strength.
- **Reset:** Reset all settings to the factory defaults.
 - ☞ The PIN input screen appears before the setup screen.
 - ☞ Enter your 4-digit PIN. Change the PIN using the **Change PIN** option.

Software Upgrade

Software Upgrade can be performed by downloading the latest firmware from www.samsung.com to a USB memory device.

HD Connection Guide

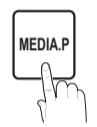
Refer to this information when connecting external devices to the TV.

Contact Samsung

View this information when your TV does not work properly or when you want to upgrade the software. You can find information regarding our call centers and how to download products and software.

Media Play

Enjoy photos, music and/or movie files saved on a USB Mass Storage Class (MSC) device.



Connecting a USB Device

1. Turn on your TV.
2. Connect a USB device containing photo, music and/or movie files to the **USB** jack on the side of the TV.
3. When USB is connected to the TV, you can select **Media Play (USB)** in Application menu.

Using the Media Play Menu



1. Press the MENU button. Press the ▲ or ▼ button to select **Application**, then press the ENTER (↵) button.
2. Press the ▲ or ▼ button to select **Media Play (USB)**, then press the ENTER (↵) button.
3. Press the ◀ or ▶ button to select an icon (**Videos, Music, Photos, Settings**), then press the ENTER (↵) button.
 - ☞ It might not work properly with unlicensed multimedia files.
 - ☞ Need-to-Know List before using **Media Play (USB)**
 - The file system supports FAT16, FAT32 and NTFS.
 - Certain types of USB Digital camera and audio devices may not be compatible with this TV.
 - **Media Play** only supports USB Mass Storage Class (MSC) devices. MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Card Readers. Devices should be connected directly to the TV's USB port. USB HDD is not supported.
 - **Media Play** only supports USB Mass Storage Class (MSC) devices. MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Card Readers. Devices should be connected directly to the TV's USB port. USB HDD is not supported.
 - Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.
 - A USB device that requires high power (more than 0.5A) may not be supported.
 - Do not disconnect the USB device while it is loading.
 - The higher the resolution of the image, the longer it takes to display on the screen.
 - If a file is corrupted or the TV does not support the file type, the "Not Supported File Format" message appears.
 - The TV cannot play MP3 files with DRM that have been downloaded from a for-pay site. Digital Rights Management (DRM) is a technology that supports the creation, distribution, and management of digital content in an integrated and comprehensive way, including protecting the rights and interests of content providers, preventing illegal copying of contents, and managing billings and settlements.
 - PTP device is not supported.
 - If an over-power warning message is displayed while you are connecting or using a USB device, the device may not be recognized or may malfunction.
 - If the TV has no input during the time set in **Auto Protection Time**, the Screensaver will run.
 - The power-saving mode of some external hard disk drives may be released automatically when you connect them to the TV.

1. Press the ◀ or ▶ button to select **Videos**, then press the ENTER (↵) button in the **Media Play** menu.
2. Press the ◀/▶/▲/▼ button to select the desired video in the file list.
3. Press the ENTER (↵) button or (▶) (Play) button.

- The selected file is displayed on the top with its playing time.
- If video time information is unknown, playing time and the progress bar are not displayed.
- During video playback, you can search using the ◀ and ▶ button.
- ☞ In this mode, you can play movie clips contained in a game, but you cannot play the game itself.
- Supported Subtitle Formats
 - External

Name	File extension
MPEG-4 timed text	.txt
SAMI	.smi
SubRip	.srt
SubViewer	.sub
Micro DVD	.sub or .txt
SubStation Alpha	.ssa
Advanced SubStation Alpha	.ass

- * If you use a USB extension cable, the TV may not recognize the USB device or may not be able to read the files on the device.
- * If a USB device connected to the TV is not recognized, the list of files on the device is corrupted, or a file in the list is not played, connect the USB device to a PC, format the device, and check the connection.
- * If a file you deleted from the PC is still found when you run **Media Play**, use the "Empty the Recycle Bin" function on the PC to permanently delete the file.
- **Photos** only supports sequential jpeg format.
- The scene search and thumbnail functions are not supported in the **Videos**.
- If the number of files and folders saved on a USB storage device is approximately over 4000, the files and folders may not appear and some folders may not be opened.
- The maximum displayed number of files, including sub folders, in one folder of USB storage device is 2000.
- The media may not be playing smoothly when using the device lower than USB 2.0.

Videos



1. Press the ◀ or ▶ button to select **Videos**, then press the ENTER (↵) button in the **Media Play** menu.
2. Press the ◀/▶/▲/▼ button to select the desired video in the file list.
3. Press the ENTER (↵) button or (▶) (Play) button.

- The selected file is displayed on the top with its playing time.
- If video time information is unknown, playing time and the progress bar are not displayed.
- During video playback, you can search using the ◀ and ▶ button.
- ☞ In this mode, you can play movie clips contained in a game, but you cannot play the game itself.
- Supported Subtitle Formats
 - External

Name	File extension
MPEG-4 timed text	.txt
SAMI	.smi
SubRip	.srt
SubViewer	.sub
Micro DVD	.sub or .txt
SubStation Alpha	.ssa
Advanced SubStation Alpha	.ass

Name	Container	Format
Xsub	AVI	Picture Format
SubStation Alpha	MKV	Text Format
Advanced SubStation Alpha	MKV	Text Format
SubRip	MKV	Text Format
MPEG-4 Timed text	MP4	Text Format

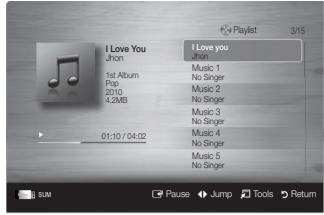
Supported Video Formats

File Extension	Container	Video Codec	Resolution	Frame rate(fps)	Bit rate(Mbps)	Audio Codec
*.mp4	MP4	DxK 3.11x, H.264, H.264	1920x1080	6-30	30Mbps	MP3 / AAC/PCM / AAC
*.avi	AVI	MPEG4 SP / ASP	1920x1080	6-30	30Mbps	MP3 / AAC / LPCM / ADPCM / DTS Core
*.mkv	MKV	MPEG4 SP / ASP	1920x1080	6-30	30Mbps	MP3 / AAC / LPCM / ADPCM / DTS Core
*.asf	ASF	MPEG4 SP / ASP	1920x1080	6-30	30Mbps	MP3 / AAC / LPCM / ADPCM / WMA / WMA Pro
*.ts	TS	MPEG2	1920x1080	6-30	30Mbps	MP3 / AAC / LPCM / ADPCM / DTS Core
*.tp	TP	H.264 BP / MP / HP	1920x1080	6-30	30Mbps	AAC / HE-AAC
*.m2p	PS	MPEG2	1920x1080	24/25/30	30Mbps	MP3 / AAC / LPCM / ADPCM
*.m2ps	PS	MPEG2	1920x1080	24/25/30	30Mbps	MP3 / AAC / LPCM / ADPCM
*.vob	VOB	H.264 BP / MP / HP	1920x1080	6-30	30Mbps	MP3 / AAC
*.3gp	3GP	MPEG4 SP / ASP	1920x1080	6-30	30Mbps	MP3 / AAC
*.h	h	H.264	1920x1080	6-30	30Mbps	MP3
*.swf	swf	Flash	1920x1080	6-30	30Mbps	MP3
*.flv	flv	Flash	1920x1080	6-30	30Mbps	MP3
*.swf	swf	Flash	1920x1080	6-30	30Mbps	MP3

Other Restrictions

- Video content will not play, or not play correctly, if there is an error in the content or the container.
- Sound or video may not work if the contents have a standard bit rate/frame rate above the compatible frame/sec listed in the table above.
- If the Index Table is in error, the Seek (Jump) function is not supported.
- The menu may take longer to appear if the video's bit rate exceeds 10Mbps.
- Video content can not be played, if there are many contents in one file.
- **Video Decoder**
 - Supports up to H.264, Level 4.1
 - H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 and AVCHD are not supported.
 - MPEG4 SP ASP :
 - Below 1280 x 720: 60 frame max
 - Above 1280 x 720: 30 frame max
 - H.263 is not supported.
 - GMC is not supported.
- **Audio Decoder**
 - Supports up to WMA7, 8, 9 STD, 9 PRO, 10 PRO
 - WMA 9 PRO and WMA 10 PRO support 5.1 channel. (LBR mode of WMA Pro is not supported)
 - WMA Lossless is not supported.

Music



1. Press the ◀ or ▶ button to select **Music**, then press the ENTER (↵) button in the **Media Play** menu.
2. Press the ◀/▶/▲/▼ button to select the desired Music in the file list.
3. Press the ENTER (↵) button or (▶) (Play) button.

- ☞ During music playback, you can search using the ◀ and ▶ button.
- ☞ (REW) and (FF) buttons do not function during play.
- ☞ Only displays the files with MP3 and PCM file extension. Other file extensions are not displayed, even if they are saved on the same USB device.
- ☞ If the sound is abnormal when playing MP3 files, adjust the **Equalizer in the Sound menu**. (An over-modulated MP3 file may cause a sound problem.)

Photos



1. Press the ◀ or ▶ button to select **Photos**, then press the ENTER (↵) button in the **Media Play** menu.
2. Press the ◀/▶/▲/▼ button to select the desired photo in the file list.
3. Press the ENTER (↵) button or (▶) (Play) button.

- ☞ NOTE
 - While a photo list is displayed, press the (▶) (Play) / ENTER (↵) button on the remote control to start the slide show.
 - All files in the file list section will be displayed in the slide show.
 - During the slide show, files are displayed in order.
 - During the slide show, you can adjust the slide show speed using (REW) or (FF) button.
 - You can move to other file using ◀ or ▶ button.
- Supported Photo Formats

Image	Photo	Resolution
JPEG	Base line	15360 x 8704
JPEG	Progressive	1024 x 768

Other Restrictions

- CMYK, YCCK Color space JPEG are not supported.

Playing Multiple Files

- **Playing selected video/music/photo files**
 1. Press the Yellow button in the file list to select the desired file.
 2. Repeat the above operation to select multiple files.
- ☞ NOTE
 - The ✓ mark appears to the left of the selected files.
 - To cancel a selection, press the Yellow button again.
 - To deselect all selected files, press the TOOLS button and select **DeSelect All**.
- 3. Press the TOOLS button, and then select **Play Selected Contents**.

- **Playing the video/music/photo file group**
 1. While a file list is displayed, move to any file in desired group.
 2. Press the TOOLS button, and then select **Play Folder**.

Media Play - Additional Functions

- **Videos/Music/Photos Play Option menus**

When playing a file, press the TOOLS button.

Category	Operation	Videos	Music	Photos
Title	You can move the other file directly.	✓	✓	✓
Repeat Mode	You can play movie and music files repeatedly.	✓	✓	✓
Picture Size	You can adjust the picture size to your preference.	✓	✓	✓
Picture Mode	You can adjust the picture setting.	✓	✓	✓
Auto Motion Plus	You can enhance motion in fast moving scenes.	✓	✓	✓
Sound Mode	You can adjust the sound setting.	✓	✓	✓
Subtitle Setting	You can play the video with Subtitles. This function only works if the subtitles are the same file name as the video.	✓	✓	✓
Audio Format	You can select the digital audio output format.	✓	✓	✓
Audio Language	You can change the audio language if the video has more than one language.	✓	✓	✓
Stop Slide Show / Start Slide Show	You can start or stop a Slide Show.	✓	✓	✓
Slide Show Speed	You can select the slide show speed during the slide show.	✓	✓	✓
Background Music	You can set and select background music when watching a Slide Show.	✓	✓	✓
Zoom	You can zoom into images in full screen mode.	✓	✓	✓
Rotate	You can rotate images in full screen mode.	✓	✓	✓
Information	You can see detailed information about the played file.	✓	✓	✓

Category	Operation	Videos	Music	Photos
Title	You can move the other file directly.	✓	✓	✓
Repeat Mode	You can play movie and music files repeatedly.	✓	✓	✓
Picture Size	You can adjust the picture size to your preference.	✓	✓	✓
Picture Mode	You can adjust the picture setting.	✓	✓	✓
Auto Motion Plus	You can enhance motion in fast moving scenes.	✓	✓	✓
Sound Mode	You can adjust the sound setting.	✓	✓	✓
Subtitle Setting	You can play the video with Subtitles. This function only works if the subtitles are the same file name as the video.	✓	✓	✓
Audio Format	You can select the digital audio output format.	✓	✓	✓
Audio Language	You can change the audio language if the video has more than one language.	✓	✓	✓
Stop Slide Show / Start Slide Show	You can start or stop a Slide Show.	✓	✓	✓
Slide Show Speed	You can select the slide show speed during the slide show.	✓	✓	✓
Background Music	You can set and select background music when watching a Slide Show.	✓	✓	✓
Zoom	You can zoom into images in full screen mode.	✓	✓	✓
Rotate	You can rotate images in full screen mode.	✓	✓	✓
Information	You can see detailed information about the played file.	✓	✓	✓

Settings

- Using the Setup Menu
 - **DivX® Video On Demand :** Shows the registration code authorized for the TV. If you connect to the DivX web site and register with 10-digit registration code, you can download the VOD activation file. Once you play it using Media Play, the registration is completed.
 - ☞ For more information on DivX® VOD, visit "http://vod.divx.com".
 - **Information:** Select to view information on the connected device.

Other Information

Installing the Wall Mount Kit

The wall mount kit (sold separately) allows you to mount the TV on the wall.

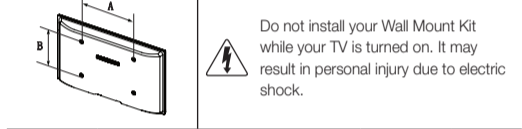
For detailed information on installing the wall mount, see the instructions provided with the wall mount items. Contact a technician for assistance when installing the wall mount bracket. Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the wall mount on your own.

Wall Mount Kit Specifications (VESA)

☞ The wall mount kit is not supplied, but sold separately. Install your wall mount on a solid wall perpendicular to the floor. When attaching to other building materials, please contact your nearest dealer. If you install the TV on a ceiling or slanted wall, it may fall and result in severe personal injury.

- ☞ NOTE
 - Standard dimensions for wall mount kits are shown in the table below.
 - When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.
 - Do not use screws that do not comply with the VESA standard screw specifications.
 - Do not use screws that are longer than the standard dimension or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the TV set.
 - For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on the wall mount specifications.
 - Do not fasten the screws too firmly. This may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
 - Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or if the consumer fails to follow the product installation instructions.
 - Do not mount the TV at more than a 15 degree tilt.
 - Always have two people mount the TV on a wall.

Product Family	TV size in inches	VESA screw hole specs (A * B) in millimeters	Standard Screw	Quantity
LED-TV	19-22	75 X 75	M4	4
	26	100 X 100	M4	
	32-40	200 X 200	M6	
	46-60	400 X 400	M8	



Do not install your Wall Mount Kit while your TV is turned on. It may result in personal injury due to electric shock.

Troubleshooting

If the TV seems to have a problem, first review this list of possible problems and solution. If none of these troubleshooting tips apply, visit www.samsung.com, then click on Support, or call Samsung customer service at 1-800-SAMSUNG.

Problem	Possible Solution
Flickering and Dimming	If your Samsung Television is flickering or dimming sporadically, you may need to disable some of its energy efficient features like the Energy Saving feature. If you follow below steps with your remote, you can turn these features off or on. <ul style="list-style-type: none"> • Energy saving : User Menu → Setup → Eco Solution → Energy Saving
Component Connectors / Screen Color	If you find that the color on your Samsung television's screen is not correct or black and White, first run a Self Diagnosis, on the TV to make sure there are no device issues. <ul style="list-style-type: none"> • Self Diagnosis : User Menu → Support → Self Diagnosis → Picture Test • If the test is ok, try making sure : <ul style="list-style-type: none"> • Your connections are all consistent. For example, if you've used the AV In jack on your TV, make sure you have used the AV Out jack on your video source. • Try making sure you have connected to the correct jacks. For example, if you use the Component jacks, labeled Pr, Pb, and Y, to connect your TV and video source, make sure you have connected the blue Pb jack on the video source to the blue Pb jack on the TV, the red Pr jack on the source to the red Pr jack on the TV.
Screen Brightness	If you find that the colors on your Samsung TV are correct but just a little too dark or bright, there are some settings you should check before calling for a repair. <ul style="list-style-type: none"> • Backlight, Contrast, Brightness, Sharpness, Color, Tint and so on. Go in to "Picture" on user Menu then try adjusting options mentioned above.
Unwanted Powering off	If your Samsung TV appears to turn off by itself, there may be an issue with either your Timer settings or your Eco friendly No Signal Power Off feature. <ul style="list-style-type: none"> • First make sure you Sleep Timer is not accidentally set. The sleep timer allows you the comfort of falling asleep with the TV still on but, turns it off after a certain period of time so as not to waste energy. • Sleep Timer : User Menu → Setup → Time → Sleep Timer • If the Sleep Timer is not activated, you may have engaged the No Signal Power Off or Auto Power Off feature. • No Signal Power Off : User Menu → Setup → Eco Solution → No Signal Power • Auto Power Off : User Menu → Setup → Eco Solution → Auto Power Off
Trouble Powering On	Before Turn on check red light on the right or left bottom of your TV. Press power on button on TV or remote and it will blink about 5 times before turning on. <p>If you find that you are having trouble powering on your Samsung television, there are a number of things to check before making a call to the service department.</p> <ul style="list-style-type: none"> • If you happen to be using the TV as a monitor and the stand-by light only blinks for a few seconds when you press the power button, your PC is in sleep mode. To take your PC out of sleep mode, press a key on your keyboard or move the mouse. Then try turning your TV on. • If you're sure your power cord, remote control, and PC are functioning properly, you may be having a cable issue. If you have a cable or satellite box, your TV may appear to be off because the cable or satellite box is not outputting a signal. To test the signal output of your cable or satellite box, press the guide or info button on the cable or satellite box remote control. If the screen displays the guide or info data, the problem is caused by the box.
Stand Assembly	• If you have any trouble to assemble the stand though you refer to "Install the Stand" mentioned at separate guide.
Cannot find channel	• Re-run plug and play.
Poor picture	First, perform the Picture Test and to see if your TV is properly displaying the test image. Go to MENU → Support → Self Diagnosis → Picture Test <ul style="list-style-type: none"> • If the test image is properly displayed, the poor picture may be caused by the source or signal. • If you have an analog cable/satellite box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality. • Cable/Satellite subscribers: Try HD channels from the channel line up. • Air/Cable Antenna connection: Try HD channels after performing Auto program. • Many HD channels are up scaled from SD(Standard Definition) contents. • Adjust the Cable/Sat top box video output resolution to 1080i or 720p.
The picture is distorted; macroblock error, small block, dots, pixelization.	• Compression of video contents may cause picture distortion, especially on fast moving pictures such as sports and action movies. • A weak signal can cause picture distortion. This is not a TV problem. • Mobile phones used close to the TV (within 3.3ft) may cause noise in the picture on analog and digital channels.
Color is wrong or missing.	• If you're using a component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen. • Adjust the Picture options in the TV menu. (go to Picture Menu / Color / Brightness / Sharpness) • Adjust Energy Saving option in the TV menu. (go to MENU → Setup → Eco Solution → Energy Saving) • Try resetting the picture to view the default picture setting. (go to MENU → Picture → Picture Reset)
There is poor color or brightness.	• Adjust the Picture options in the TV menu. (go to Picture Menu / Color / Brightness / Sharpness) • Adjust Energy Saving option in the TV menu. (go to MENU → Setup → Eco Solution → Energy Saving) • Try resetting the picture to view the default picture setting. (go to MENU → Picture → Picture Reset)

There is a dotted line on the edge of the screen.	• If the picture size is set to Screen Fit , change it to 16:9. • Change cable/satellite box resolution.
The picture is black and white.	• If you are using an AV composite input, connect the video cable (yellow) to the Green jack of component input 1 on the TV.
When changing channels, the picture freezes or is distorted or delayed.	• If connected to a cable box, please try to reset it. (disconnect the AC cord and wait until the cable box reboots. It may take up to 20 minutes) • Set output resolution of the cable box to 1080i or 720p.
Sound Problem	First of all, please perform the Sound Test to confirm that your TV audio is properly operating. (go to MENU → Support → Self Diagnosis → Sound Test) If the audio is OK, the sound problem may be caused by the source or signal. <ul style="list-style-type: none"> • Please check the volume of the device (Cable/Sat Box, DVD, Blu-ray, etc) connected to your TV.
There is no sound or the sound is too low at maximum volume.	• If you are using an external device, check the device's audio output option (ex. you may need to change your cable box's audio option to HDMI when you have a HDMI connected to your TV). • Reboot the connected device by reconnecting the device's power cable.
The picture is good but there is no sound.	• If you are using an external device, check the device's audio output option (ex. you may need to change your cable box's audio option to HDMI when you have a HDMI connected to your TV). • Reboot the connected device by reconnecting the device's power cable.
The speakers are making an inappropriate noise.	• Check the cable connections. Make sure a video cable is not connected to an audio input. • For Antenna or Cable connections, check the signal information. A weak signal may cause sound distortion. • Perform the Sound Test as explained above.
No Picture, No Video	• Make sure the AC power cord is securely plugged into the wall outlet and the TV. • Make sure the wall outlet is working. • Try pressing the POWER button on the TV to make sure the problem is not the remote. If the TV turns on, refer to "Remote control does not work" below.
The TV turns off automatically.	• Ensure the Sleep Timer is set to Off in the Time menu . • If your PC is connected to the TV, check your PC power settings. • Make sure the AC power cord is plugged in securely to the wall outlet and the TV. • When you are watching TV connected to an antenna or cable connection, the TV will turn off after 10- 15 minutes if there